

WHAT IS CLAIMED IS:

1. A satellite digital radio broadcast receiver having an integrated circuit including a first reception series for performing a reception processing
5 of a satellite wave signal from a satellite and a second reception series for performing a reception processing of a ground wave signal from a repeater in order to receive both the satellite wave signal and the ground wave signal having the same broadcast contents
10 and different modulation methods, the satellite digital radio broadcast receiver comprising:

automatic gain control means for amplifying a signal from a single antenna at a variable gain amplifier, and in accordance with a level of a signal
15 outputted from the variable gain amplifier, for controlling a gain of the variable gain amplifier to control the level of the signal outputted from the variable gain amplifier; and

a two-way distributor for distributing an output
20 of the automatic gain control means to two distribution outputs,

wherein one of the two distribution outputs from the two-way distributor is supplied to said integrated circuit as an input signal to the first reception
25 series, and the other of the two distribution outputs from the two-way distributor is supplied to the integrated circuit as an input signal to the second

reception series.

2. The satellite digital radio broadcast receiver
according to claim 1, wherein the two-way distributor
5 operate to distribute an input at a distribution ratio
according to for a gain of the first reception series
and a gain of the second reception series.

3. The satellite digital radio broadcast receiver
10 according to claim 1, wherein the antenna is either an
antenna for receiving the satellite wave signal or an
antenna for receiving the ground wave signal.